

E-5324

Catalog No: tcsc0014924



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

141799-76-0

Formula:

$C_{26}H_{34}N_4O_2$

Pathway:

Metabolic Enzyme/Protease

Target:

Acyltransferase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

434.57

Product Description

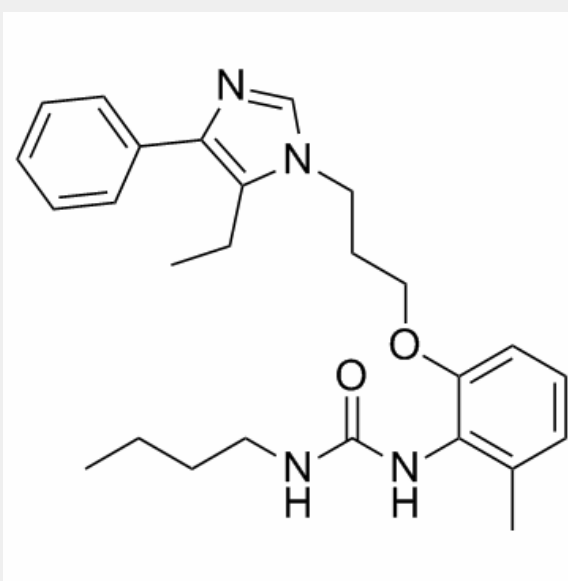
E-5324 is potent inhibitor of acyl-CoA:cholesterol acyltransferase (**ACAT**) with **IC₅₀**s of 44 to 190 nM.

IC50 & Target: IC50: 44 to 190 nM (ACAT)^[1]

In Vitro:

E-5324 is a potent ACAT inhibitor with IC_{50} s of 44 to 190 nM in microsomes. E-5324 shows no effect on triglyceride synthesis up to 10 μ M. E-5324 also has no effect on bovine pancreatic cholesterol esterase or lecithin: cholesterol acyltransferase (LCAT) up to 10 μ M. E-5324 inhibits the incorporation of [3 H]oleate into cholesteryl [3 H]oleate in a concentration-dependent manner with an IC_{50} of 0.44 μ M. E-5324 also inhibits [3 H]cholesteryl ester synthesis with an IC_{50} of 0.41 μ M^[1].

In Vivo: The areas under the cholesterol-time curves for duration of this study (AUC) for control, E-5324 0.02% and E-5324 0.1% are 104985 ± 4411 , 106096 ± 4476 and 105231 ± 4348 mg \times day/dL, respectively. The high dose of E-5324 (0.1%) significantly reduces the surface involvement by 34% and 54% in the aortic arch and thoracic aorta, respectively. E-5324 treatment significantly reduces the wet weight and protein content. In the aortic arch, the high dose of E-5324 (0.1%) significantly reduces both cholesteryl ester and total cholesterol by 60% and 59%, respectively. The high dose of E-5324 (0.1%) markedly reduces the ACAT activities in the aortic arch and thoracic aorta by 35% and 44%, respectively^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!